

### Patent Claims

1.     Sensor plug head (17; 24; 27) for connection to a sensor (1),  
5     wherein the sensor has at least one output (14, 15; 114, 115; 28, 29, 30)  
   for issuing a measurement signal, and a liquid container, which is fillable  
   with a reference or calibration liquid (12), and  
  
   wherein the sensor plug head (17; 24; 27) includes at least one input (18,  
10    19; 118, 119; 31, 32, 33) for receiving the potential-dependent signal and  
   additionally a supply connection (20; 25; 36) for connecting to the liquid  
   container.
2.     Sensor plug head as claimed in claim 1, wherein the sensor is a  
15    potentiometric sensor with an output for issuing a potential-dependent  
   signal and the liquid container is a reference container.
3.     Sensor plug head as claimed in claim 1 or 2, wherein the supply  
   connection (20; 25; 36) includes a first connection element, and the  
20    sensor includes a second connection element (10; 16), and wherein the  
   first connection element is complementary to the second connection  
   element.
4.     Sensor plug head as claimed in claim 3, wherein the first  
25    connection element (20; 25; 36) includes an electrolyte line and the  
   second connection element includes an opening (16; 10), wherein,  
   further, the electrolyte line is connectable to the opening, for supplying  
   the reference container with electrolyte.

5. Sensor plug head as claimed in one of the preceding claims, wherein the at least one output (14, 15; 114, 115) and the at least one input (18, 19; 118, 119) include galvanic contacts.
- 5 6. Sensor plug head as claimed in one of the claims 1 to 4, wherein the at least one output (28, 29, 30) and the at least one input (31, 32, 33) each include an inductive interface.
7. Sensor plug head as claimed in one of the preceding claims,  
10 wherein the potentiometric sensor is a pH-sensor or a redox sensor.
8. Sensor plug head as claimed in one of the preceding claims, wherein the potentiometric sensor includes an ion-sensitive field-effect transistor.
- 15 9. Sensor arrangement, comprising: a sensor having at least one output for issuing at least one signal, wherein the sensor has a liquid container, which is fillable with a reference or calibration liquid; and a sensor plug head as claimed in one of the preceding claims.